

# l15\_numbers (TMVFtaiWUdAQ- TUs7WYTRxjzxKTU9gT2CvaB)

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Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_arytm\_3 : \iota$  be given. Let  $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r3\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.(v3\_ordinal1 X1) \Rightarrow (\neg (\neg X0 \in X1) \wedge ((X0 \neq X1) \wedge (\neg X1 \in X0)))) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v3\_ordinal1 X0) \wedge (m1\_subset\_1 X0 k5\_arytm\_3)) \Rightarrow ( \\ \forall X1.((v3\_ordinal1 X1) \wedge (m1\_subset\_1 X1 k5\_arytm\_3)) \Rightarrow ( \\ \neg (X0 \in X1) \wedge (r3\_arytm\_3 X1 X0))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.(v3\_ordinal1 X1) \Rightarrow ((r1\_ordinal1 X0 X1) \Leftrightarrow (\forall X2.(v3\_ordinal1 X2) \Rightarrow ((X2 \in X0) \Rightarrow (X2 \in X1))))) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k5\_arytm\_3) \wedge (m1\_subset\_1 X1 k5\_arytm\_3)) \Rightarrow ((r3\_arytm\_3 X0 X1) \vee (r3\_arytm\_3 X1 X0)) \quad (4)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((v3\_ordinal1 X0) \wedge (m1\_subset\_1 X0 k5\_arytm\_3)) \Rightarrow ( \\ \forall X1.((v3\_ordinal1 X1) \wedge (m1\_subset\_1 X1 k5\_arytm\_3)) \Rightarrow ( \\ (r1\_ordinal1 X0 X1) \Rightarrow (r3\_arytm\_3 X0 X1))) \end{aligned}$$